

# WORLD WIldlife and Water Quality





Karelyn Pohl Earth/Environmental Science Metro High School Johnson County Conservation

- Johnson County Conservation Department manages natural resources and outdoor recreation areas throughout the county.
- There are several native prairies, river access areas, small community parks.
- The Board's Operation Center is located at F.W. Kent Park.

## Part III: Introduce the Problem

- Algae blooms have increased in the past decade. This can cause a health hazard to both swimmers and fish.
- Nobody is sure what could cause this increase, but we want to reduce the algae to keep the lake safe.

## Part II: Job Specifics

- The lake located at the main park requires a lot of maintenance. This is a huge attraction for campers and fishers in the area.
- The responsibilities includes maintaining both water quality and the surrounding land to achieve a native Iowa Experience.

## Part IV: Background

- · Iowa and National water standards suggest that water meet the following criteria:
  - >5 dissolved oxygen
  - pH range from 6-9

### Part V: Business Solution

The Johnson County Conservation Board started a comprehensive testing assessment of the lake water and surrounding areas about 3 years ago. They test every 10 days and after 1.25" rainfall.

#### Part VI: Student Solutions

- Start testing for all of the chemicals.
- Test once a week and record data.
- Highlight anything that spikes out of the suggested values.
- Correlate for spikes in values and an increase in algae blooms/decrease in wildlife diversity.